

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2005, 05:37:07 ; Search time 474 Seconds
(without alignments)

9591.480 Million cell updates/sec

Title: US-09-939-537-32

Perfect score: 768

Sequence: 1 GCTACAGAGCCCAATCTT.....GGGCTCTGGACGCGATCC 768

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_16Dec04:*

1: Geneseqn1980s:*

2: Geneseqn1990s:*

3: Geneseqn2000s:*

4: Geneseqn2001as:*

5: Geneseqn2001bs:*

6: Geneseqn2002as:*

7: Geneseqn2002bs:*

8: Geneseqn2003as:*

9: Geneseqn2003bs:*

10: Geneseqn2003cs:*

11: Geneseqn2003ds:*

12: Geneseqn2004as:*

13: Geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	768	100.0	768	2	AAT10780 Coding se
2	766.4	99.8	768	2	AAG96101 IgG1 hing
3	744.6	97.0	3143	13	ADR66793 Human pro
4	744.6	97.0	3143	13	ADR65890 Human pro
5	738.2	96.1	3075	13	ADR08053 Full leng
6	701	91.3	3183	13	ADR08303 Full leng
7	696	90.6	1827	8	ABT32045 Concatame
8	696	90.6	1827	12	ADQ79907 Human tum
9	695.2	90.5	7427	12	ADJ57518 Human FVI
10	695.2	90.5	7494	12	ADJ57515 Human FVI
11	695	90.5	1134	8	ABT32048 Concatame
12	695	90.5	1134	12	ADQ79913 Human CTL
13	695	90.5	1314	8	ABT32047 Concatame
14	695	90.5	1314	12	ADQ79911 Human CD2
15	695	90.5	1980	8	ABT32046 Concatame
16	695	90.5	1980	12	ADQ79909 Human tum
17	694.8	90.5	1104	12	ADQ79909 Human tum
18	694.4	90.4	1335	8	ABT32041 Concatame
19	694.4	90.4	1335	12	ADQ79899 Human tum
20	694.4	90.4	1413	6	AAD45752 Human C2B

21	694.4	90.4	1413	8	ABZ24016 Antibody
22	694.4	90.4	1428	2	AAT61241 Human ant
23	694.4	90.4	1431	2	AAT62513 Primatise
24	694.4	90.4	1431	2	AAT62510 Primatise
25	694.4	90.4	1431	2	AAV35485 Macaque p
26	694.4	90.4	1431	2	AAV35489 Macaque p
27	694.4	90.4	1431	6	AAS17247 DNA seque
28	694.4	90.4	1431	6	AAS17243 DNA seque
29	694.4	90.4	1431	10	AAD56527 Monkey 7C
30	694.4	90.4	1437	2	AAV35487 Macaque p
31	694.4	90.4	1437	6	AAS17245 DNA seque
32	694.4	90.4	1437	10	AAD56529 Monkey 7B
33	694.4	90.4	1887	8	ABT32043 Concatame
34	694.4	90.4	1887	12	ADQ79903 Human tum
35	694.4	90.4	9209	9	ABX94203 TCAE8 exp
36	694.4	90.4	9209	10	ADE85693 Variable
37	694.4	90.4	9209	10	ACC78893 Chimeric
38	694.4	90.4	9209	12	ADN49730 Variable
39	693.8	90.3	1367	3	AAC67834 FC-muAGP-
40	693.6	90.3	1173	6	ABA95203 MOG-Pc fu
41	693.6	90.3	1173	9	ADA14264 Human imm
42	693.4	90.3	705	12	ADL46173 Human imm
43	693.4	90.3	1473	8	ABT32042 Concatame
44	693.4	90.3	1473	12	ADQ79901 Human tum
45	693.4	90.3	2040	12	ADJ57517 Human FVI

ALIGNMENTS

RESULT 1

AAT10780

ID AAT10780 standard; DNA; 768 BP.

XX AAT10780;

AC AAT10780;

DT 26-SEP-1996 (first entry)

XX Coding sequence for IgG1 hinge, CH2 and CH3 domains.

XX CD7; transmembrane domain; chimeric receptor; CD5; CD34; CH2; CH3; IgG1; human; CD4; HIV; proteinaceous alpha-helix; T cell; B cell; neutrophil; dendritic cell; therapy; mammal; infection; ss.

OS Homo sapiens.

XX WO9603883-A1.

PN 15-FEB-1996.

XX 26-JUL-1995; 95WO-US009468.

XX 02-AUG-1994; 94US-00284391.

XX 24-FEB-1995; 95US-00394388.

XX (GCHO) GEN HOSPITAL CORP.

XX Seed B, Banapour B, Romeo C, Kolanus W;

XX WPI; 1996-129034/13.

XX P-PSDB; AAR89441.

XX Membrane-bound chimeric receptor comprising extracellular portion

XX including CD4 fragment - cells expressing receptor can be used for

XX treatment of HIV infection.

XX Claim 3; Fig 25; 134pp; English.

XX This sequence represents the coding sequence for the human IgG1 hinge,

XX CH2 and CH3 domains. This sequence is included in the membrane bound

XX proteinaceous chimeric receptor of the invention. Alternatively the

XX transmembrane region of the chimeric receptor contains a portion of the

XX CD7, CD5 or CD34 transmembrane domains. The extracellular portion of the

soluble domain or a different soluble domain of a biologically active protein. The methods and compositions of the present invention are useful for the diagnosis and treatment of disorders associated with dimeric protein or its glycosylated form, such as inflammation, septicemia, cytotoxicity, rheumatoid arthritis, cachexia and other inflammation-related diseases. This polynucleotide sequence represents the DNA encoding a human concatameric protein of the invention

Query Match 90.5%; Score 695; DB 8; Length 1134;
Best Local Similarity 100.0%; Pred. No. 1.6e-137;
Matches 695; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 GCAGAGCCCAATCTTGTGACAAACTCACAATGCCACCGTGCAGACCTGAATCTC 64
Db 433 GCAGAGCCCAATCTTGTGACAAACTCACAATGCCACCGTGCAGACCTGAATCTC 492

QY 65 CTGGGGGGACCGTCAAGTCTTCTTCCGCCCAAAACCAAGGACACCTCATGATCTCC 124
Db 493 CTGGGGGGACCGTCAAGTCTTCTTCCGCCCAAAACCAAGGACACCTCATGATCTCC 552

QY 125 CGGACCCCTGAGGTCAATGCTGCTGTGACGAGCAGGACGACCTGAGGTCAAG 184
Db 553 CGGACCCCTGAGGTCAATGCTGCTGTGACGAGCAGGACGACCTGAGGTCAAG 612

QY 185 TTCAACTGGTACGTGACCGCGGTGGAGGTGCATATGCCAAGCAAGCGCGGAGGAG 244
Db 613 TTCAACTGGTACGTGACCGCGGTGGAGGTGCATATGCCAAGCAAGCGCGGAGGAG 672

QY 245 CAGTACAAAGCAAGTCAAGTGCAGCGTCTTCCAGCGTCTTCCAGCAGGACCTGGCTG 304
Db 673 CAGTACAAAGCAAGTCAAGTGCAGCGTCTTCCAGCGTCTTCCAGCAGGACCTGGCTG 732

QY 305 AATGGCAAGGAGTACAGTGCAGGTCCTCCACAAAGCCCTCCAGCCCCCATCGAGAAA 364
Db 733 AATGGCAAGGAGTACAGTGCAGGTCCTCCACAAAGCCCTCCAGCCCCCATCGAGAAA 792

QY 365 ACCATCTCCAAAGCCAAAGGGCAGCCCCCGAGAACCAAGGTGTACACCTGCCCCATCC 424
Db 793 ACCATCTCCAAAGCCAAAGGGCAGCCCCCGAGAACCAAGGTGTACACCTGCCCCATCC 852

QY 425 CGGATGAGTGCACCAAGAACCAAGGTGAGGTGAGTGCATATGCCAAGCAAGCGCGGAGGAG 484
Db 853 CGGATGAGTGCACCAAGAACCAAGGTGAGGTGAGTGCATATGCCAAGCAAGCGCGGAGGAG 912

QY 485 AGCGACATCCCGTGGAGTGGGAGCAATGGCGAGCGCGGAGAACCAACTACAAGACCCAG 544
Db 913 AGCGACATCCCGTGGAGTGGGAGCAATGGCGAGCGCGGAGAACCAACTACAAGACCCAG 972

QY 545 CCTCCCGTGTGGACTCCGACGGCTCTTCTTCTCTACGCAAGCTCAAGTGGAGCAAG 604
Db 973 CCTCCCGTGTGGACTCCGACGGCTCTTCTTCTCTACGCAAGCTCAAGTGGAGCAAG 1032

QY 605 AGCAGGTGGCAGCAGGGAAGCTTCTTCTATGCTCGTATGATGAGCTCTGACAAAC 664
Db 1033 AGCAGGTGGCAGCAGGGAAGCTTCTTCTATGCTCGTATGATGAGCTCTGACAAAC 1092

QY 665 CACTACACGCAAGAGCTCTCCCTGCTCCGGG 699
Db 1093 CACTACACGCAAGAGCTCTCCCTGCTCCGGG 1127

RESULT 12
ADQ79913
ID ADQ79913 standard; DNA; 1134 BP.
XX
AC ADQ79913;
DT 09-SEP-2004 (first entry)
DE Human CTLA4/Ig construct DNA.
XX

Human; tumour necrosis factor receptor; TNFR1; TNFR2; CTLA4; CD2; IgG; immunoglobulin; ds; concatameric fused dimer protein; immunoadhesin; FC fragment; hinge.

OS Homo sapiens.
OS Synthetic.
FN KR2004009997-A.
PD 31-JAN-2004.
PF 26-JUL-2002; 2002KR-00045921.
PR 26-JUL-2002; 2002KR-00045921.
PA (MEDB-) MEDXGEN INC.
PI Choi EY, Han JU, Jung YH, Kim JM, Lee HJ;
XX WPI; 2004-458871/43.
DR P-PSDB; ADQ79914.
XX Concatameric immunoadhesin.
PS Example 2; SEQ ID NO 15; 129pp; Korean.
XX The invention relates to a concatameric fused dimer protein and glycosylation modification protein providing concatameric immunoadhesin with improved efficacy and stability. The concatameric protein is characterized by binding C-terminal of one biologically active protein with N-terminal of same or different biologically active protein, e.g. tumour necrosis factor receptors (TNFR1 and TNFR2), CD2 and CTLA4. Two monomer proteins which are formed by fusing the extracellular region of a protein participating in the same immune reaction to an immunoglobulin Fc fragment, bound together at a hinge region by disulphide bond to give the concatameric fused dimer protein, wherein the immunoglobulin is IgG. The present sequence encodes a monomeric or dimeric IgG fusion protein (or a dimeric fusion protein containing engineered N-glycosylation sites, designated "mg").

Sequence 1134 BP; 273 A; 352 C; 298 G; 211 T; 0 U; 0 Other;

Query Match 90.5%; Score 695; DB 12; Length 1134;
Best Local Similarity 100.0%; Pred. No. 1.6e-137;
Matches 695; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 GCAGAGCCCAATCTTGTGACAAACTCACAATGCCACCGTGCAGACCTGAATCTC 64
Db 433 GCAGAGCCCAATCTTGTGACAAACTCACAATGCCACCGTGCAGACCTGAATCTC 492

QY 65 CTGGGGGGACCGTCAAGTCTTCTTCCGCCCAAAACCAAGGACACCTCATGATCTCC 124
Db 493 CTGGGGGGACCGTCAAGTCTTCTTCCGCCCAAAACCAAGGACACCTCATGATCTCC 552

QY 125 CGGACCCCTGAGGTCAATGCTGCTGTGACGAGCAGGACGACCTGAGGTCAAG 184
Db 553 CGGACCCCTGAGGTCAATGCTGCTGTGACGAGCAGGACGACCTGAGGTCAAG 612

QY 185 TTCAACTGGTACGTGACCGCGGTGGAGGTGCATATGCCAAGCAAGCGCGGAGGAG 244
Db 613 TTCAACTGGTACGTGACCGCGGTGGAGGTGCATATGCCAAGCAAGCGCGGAGGAG 672

QY 245 CAGTACAAAGCAAGTCAAGTGCAGCGTCTTCCAGCGTCTTCCAGCAGGACCTGGCTG 304
Db 673 CAGTACAAAGCAAGTCAAGTGCAGCGTCTTCCAGCGTCTTCCAGCAGGACCTGGCTG 732

QY 305 AATGGCAAGGAGTACAGTGCAGGTCCTCCACAAAGCCCTCCAGCCCCCATCGAGAAA 364
Db 733 AATGGCAAGGAGTACAGTGCAGGTCCTCCACAAAGCCCTCCAGCCCCCATCGAGAAA 792

QY 365 ACCATCTCCAAAGCCAAAGGGCAGCCCCCGAGAACCAAGGTGTACACCTGCCCCATCC 424
Db 793 ACCATCTCCAAAGCCAAAGGGCAGCCCCCGAGAACCAAGGTGTACACCTGCCCCATCC 852

Qy	65	CTGGGGGACCGTCAGTCTTCTCTTCCGCCCAAAACCCCAAGGACACCCCTCATGTCTCC	124
Db	1339	CTGGGGGACCGTCAGTCTTCTCTTCCGCCCAAAACCCCAAGGACACCCCTCATGTCTCC	1398
Qy	125	CGGACCCCTGAGGTCAATGCGGTGGTGGACGTGAGCCAGCAAGACCCCTGAGGTCAAG	184
Db	1399	CGGACCCCTGAGGTCAATGCGGTGGTGGACGTGAGCCAGCAAGACCCCTGAGGTCAAG	1458
Qy	185	TTCAACTGTGATGTTGACCGGTGGAGGTGCATATGCCAAGCAAAAGCCGGGGAGGAG	244
Db	1459	TTCAACTGTGATGTTGACCGGTGGAGGTGCATATGCCAAGCAAAAGCCGGGGAGGAG	1518
Qy	245	CAGTACAACAGCAGCTACCGGTGGTGGACGTCTCACCCTGCTGACCCAGGACTGGCTG	304
Db	1519	CAGTACAACAGCAGCTACCGGTGGTGGACGTCTCACCCTGCTGACCCAGGACTGGCTG	1578
Qy	305	AATGGCAAGGAGTACAAGTGCAGGTCTCCAAAGACCCCTCCAGCCGCCCATCGAGAAA	364
Db	1579	AATGGCAAGGAGTACAAGTGCAGGTCTCCAAAGACCCCTCCAGCCGCCCATCGAGAAA	1638
Qy	365	ACCATCTCAAAGCCAAAGGCGAGCCCGGAGAACCAAGGTGTACACCTGCCCCCATCC	424
Db	1639	ACCATCTCAAAGCCAAAGGCGAGCCCGGAGAACCAAGGTGTACACCTGCCCCCATCC	1698
Qy	425	CGGGATGAGCTGACCAAGAACCAAGGTGACCTGCTGCTGCTCAAGGCTTCTATCC	484
Db	1699	CGGGATGAGCTGACCAAGAACCAAGGTGACCTGCTGCTGCTCAAGGCTTCTATCC	1758
Qy	485	AGCGACATCGCGTGGAGTGGAGAGCAATGGGAGCCGAGAACCAACTACAAGACCAAG	544
Db	1759	AGCGACATCGCGTGGAGTGGAGAGCAATGGGAGCCGAGAACCAACTACAAGACCAAG	1818
Qy	545	CCTCCCGTGTGGACTCCGACGGCTCTTCTTCTTACAGCAAGCTCACCGTGGACAAG	604
Db	1819	CCTCCCGTGTGGACTCCGACGGCTCTTCTTCTTACAGCAAGCTCACCGTGGACAAG	1878
Qy	605	AGCAGGTGGCAGCAGGGGAAAGTCTTCTCATGCTCGGTGATGATGAGGCTCTGCACAAC	664
Db	1879	AGCAGGTGGCAGCAGGGGAAAGTCTTCTCATGCTCGGTGATGATGAGGCTCTGCACAAC	1938
Qy	665	CACTACAGCAGAGAGCCTCTCCCTGTCTCCGGG	699
Db	1939	CACTACAGCAGAGAGCCTCTCCCTGTCTCCGGG	1973

Search completed: March 8, 2005, 07:08:24
Job time : 478 secs

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